

ABSTRACT

A bacterial α 1,2-fucosyltransferase gene and deduced amino acid sequence is provided. The gene is useful for preparing α 1,2-fucosyltransferase polypeptide, and active fragment thereof, which can be used in the production of oligosaccharides such as Lewis X, Lewis Y, Lewis B and H type 1, which are structurally similar to certain tumor-associated carbohydrate antigens found in mammals. These product glycoconjugates also have research and diagnostic utility in the development of assays to detect mammalian tumors.